

DETERGENT INJECTION SYSTEMS FOR CARBON DIOXIDE CLEANING APPARATUS

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A system for the controlled addition of detergent formulations and the like to a carbon dioxide cleaning apparatus comprises: a high pressure wash vessel (11); an auxiliary vessel (12); a drain line (13) connecting the auxiliary vessel to the wash vessel; optionally but preferably, a separate vent line (14) connecting the auxiliary vessel to the wash vessel; a detergent reservoir (15); and a detergent supply line (16) connecting the detergent reservoir to the auxiliary vessel. An advantage of this apparatus is that, because the detergent formulation can be pumped into the auxiliary vessel in a predetermined aliquot or amount, which predetermined aliquot or amount can then be transferred into the wash vessel where it combines with the liquid carbon dioxide cleaning solution, the detergent formulation can be added to the cleaning solution in a more controlled or accurate manner.

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